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Description of the Males of *Dendryphantes czekanowskii* PRÓSZYŃSKI and *Heliophanus baicalensis* KULCZYŃSKI (Araneae, Salticidae) from Siberia.

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Yu. M. MARUSIK[1] · B. CUTLER[2]：シベリア産の*Dendryphantes czekanowskii*および*Heliophanus baicalensis*の雄の記載（クモ目：ハエトリグモ科）

Abstract : The males of *Dendryphantes czekanowskii* PRÓSZYŃSKI and *Heliophanus baicalensis* KULCZYŃSKI are described for the first time. Both species have a central and eastern Siberian distribution, and are common in the Magadan area of eastern Siberia, USSR.

Introduction

In recent years, numerous new species of jumping spiders have been described from the Asian regions of the USSR. However, many of these species, as well as those described in earlier years, are known only from one sex. In this paper, we are describing the males of the two Siberian species, *Dendryphantes czekanowskii* PRÓSZYŃSKI and *Heliophanus baicalensis* KULCZYŃSKI, which were previously known from females only.

All measurements are in millimeters.

Dendryphantes czekanowskii PRÓSZYŃSKI, 1979

(Fig. 1-3)

Dendryphantes czekanowskii PRÓSZYŃSKI, 1979, p. 305.

Measurement (based on one male from Magadan area, Siberia, USSR) : Total length 5.0, carapace 2.40 long, 1.80 wide. Eyerow I width 1.45, Eyerow III width 1.43, eyefield length 0.85. Eye diameters : AME 0.36, ALE 0.21, PME 0.06, PLE 0.19. Distance ALE-PME 0.27, PLE-PME 0.36. Lengths of femora : I 1.45, II 1.10, III 1.12, IV 1.37. Leg formula I, IV, III, II. Spines of leg I : femur dorsal 2, apico-prolateral 2; tibia ventral 3-3, metatarsus ventral 2-2. Range of total length in 5 males, 4.9-5.7. Prosoma with ocular area black, thoracic area reddish brown, clypeus and sides with numerous white scales. Opisthosoma reddish orange with five pairs of distinct black spots, and five (sometimes fewer) pairs of white spots. Sometimes with black lateral margins and ventral black band.

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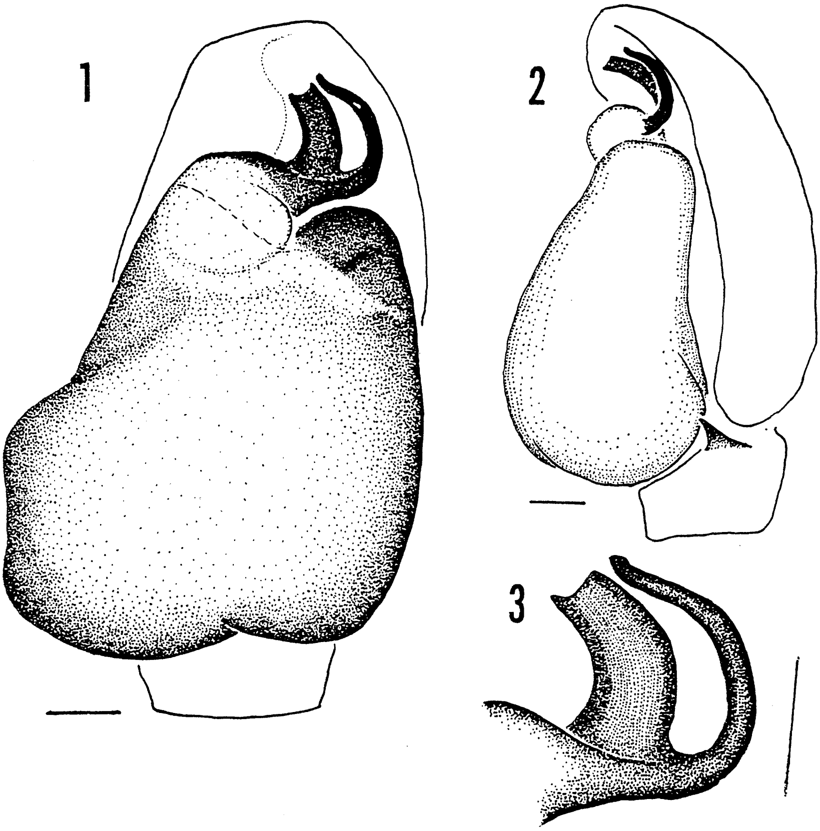

Fig. 1-3 *Dendryphates czekanowskii* Prószyński. 1-2. Palpal tibia and tarsus.Ventral view. 2. Retrolateral view. 3. Embolus, ventral view. Scale line=0.1mm.

Diagnosis : In both general morphological characteristics and coloration, males are very similar to males of *D. fusconotatus* (Grube, 1861), *D.chuldensis* Prószyński, 1982 and the nearctic *D. nigromaculatus* (Keyserling, 1884). *D. czckanowskii* can be easily distinguished from other Old World species, except *D. chuldensis*, by the much broader proximal division of the embolus. In *D. chuldensis*, the distal embolic division is short and about equal in length to the proximal division, while that is about 1½ times as long as the latter in *D. czekanowskii*; see Prószyński (1982) for details of *D. chuldensis*. In *D. nigromaculatus* the distal embolic division is about 2 times the length of the proximal division which is very broad at the base and tapers abruptly to a narrow tip. *Dendryphantes czekanowskii* has the proximal division approximately even in thickness throughout. Cutler and Jennings (1985) considered that *D. czekanowskii* might be related to the nearctic *Metaphidippus arizonensis* (Peckham & Peckham, 1901) based on some similarities in the female epigyna, however the discovery of the male shows this not to be the case.

Distribution : All known specimens are from the USSR. The female holotype was collected in the Moyero River area, eastern part of the Krasnoyarsk Region. An additional male specimen was found in the Krasnoyarsk Region, Putorana Plateau, Ayan Lake environs, Cuptchug River, Moss-*Eriphorum* bog in taiga, June 13, 1983, leg. and det. K. Yu. Eskov (ZMMU)-westernmost record. Males and females from the Magadan area, Upper Kolyma Flow, Sibit-Tyellakh basin, 1985-1987, leg. Yu. Marusik (BC, IBPN, ZMMU) ;Upper Kolyma Flow, basin of Kontaktovy Spring, 147 30' E 61 40' N, August 15-18, 1987, leg. G. A. Anufriyev, 1 female.

Natural history : In Upper Kolyma associated with shrubs of *Alnus fruticosus* Ruprecht & Ledebour, and golden rosebay *Rhododendron aureum* Georgi in alpine tundra (1100-1400m), and on *Pinus pumila* Pallas & Regel near retreats of *Lariniodes patagiatus* (Clerck) (Araneidae).

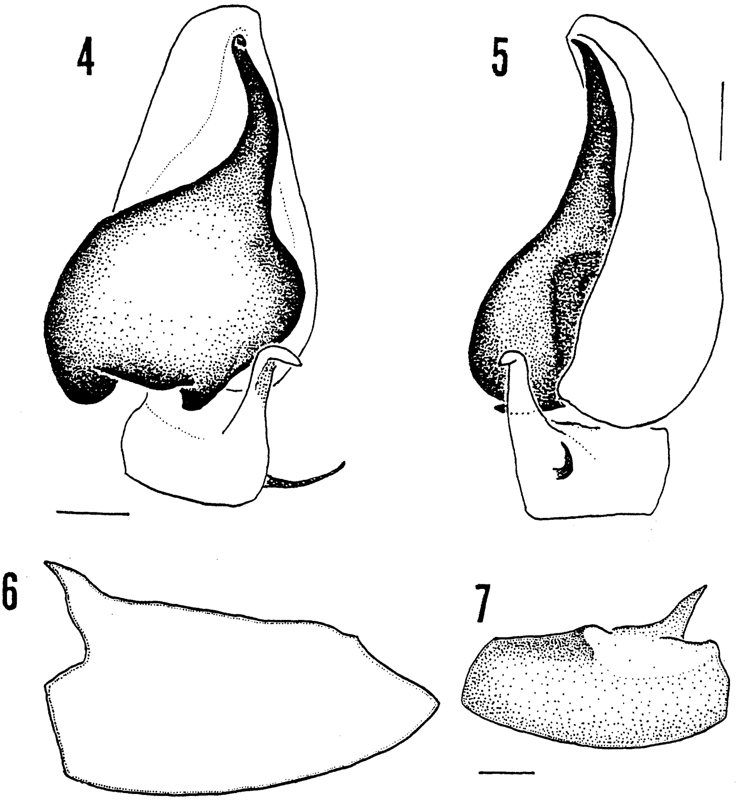

Fig. 4-7 *Heliophanus baicalensis* Kulczyński. 4-5. Palpal tibia and tarsus. 4. Ventral view. 5. Retrolateral view. 6-7. Palpal femur. 6. Retrolateral view. 7. Prolateral view. Scale line=0.1mm.

Heliophanus baicalensis KULCZYNSKI, 1895

(Figs. 4-7)

Heliophanus baicalensis KULCZYŃSKI, 1895.
H. baicalensis : SCHENKEL, 1963; PROSZYNSKI, 1979; WESOLOWSKA, 1986.

Total length 3.5, carapace 1.75 long, 1.25 wide. Eyerow I width 1.00, eyerow III width 1.02, eyefield length 0.70. Eye diameters : AME 0.32, ALE 0.15, PME 0.04, PLE 0.13. Distance ALE-PME 0.24, PLE-PME 0.20. Femora lengths : I 0.90, II 0.80, III 0.90, IV 1.05. Leg formula IV, I =III, II. Spines leg I : femoral 3 dorsal; tibial 3 retrolateral, 1 prolateral; metatarsal 2-2 ventral. Range of total length in 5 males, 3.4-3.8. Prosoma dark brown. Legs brown to black, metatarsi and tarsi yellow. Opisthosoma black with iridescent hairs. Male from Magadan area, Siberia, USSR.

Diagnosis : Males are placed in the *H. ussuricus* group by the general configuration of bulb, and femoral and tibial apophyses of the palpus. This confirms Wesolowska's placing of the females. From all other members of the genus it is distinguished by the elongate narrow embolus as seen in ventral view, and by the slight swelling near the base of the femoral apophysis.

Distribution : *H. baicalensis* was known from China : Kansu Province - southernmost record; the central part of Mongolia; USSR: northwest of Birobidzhan, and the type locality of Kultuk on the western end of Lake Baikal (see map in WESLOWSKA 1986). Numerous males and females (BC, IBPN, ZMMU) were collected in USSR : Siberia, Magadan area, Upper Kolyma Flow, Sibit- Tyellakh River Basin-easternmost record, and Gertner Bay, 15 km east of Magadan, 1983-1987, leg. Yu. MARUSIK. Adults occur there from June to August. Additional records from the unpublished Catalogue of Spiders. Order Aranei, Family Salticidae - USSR (Jumping Spiders) revised in 1986 by the late A. B. NENILIN are : Irkutsk Area, Baikal Entomological Reserve, August 10, 1978, leg. D. B. VERZHUTSKI, female; Buryatiya, Tunkinski District, Zakutai Village environs, June 17, 1969, leg. D. B. VERZHUTSKI, female-westernmost record.

Natural history : In the Magadan area in many habitats, most numerous on south facing slopes in open *Larix dahurica* TURCZANINOV forest, associated with the heath *Vaccinium vitis-idea* L., 500-700m elevation.

Acronyms for collections

BC-Bruce CUTLER, Minnesota, USA,
IBPN-Institure of Biological Problems of the North, Academy of Sciences, USSR,
ZMMU-Zoological Museum,Moscow State University, USSR.

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摘　　要

ハエトリグモ科の *Dendryphantes czekanowskii* および *Heliophanus baicalensis* の雄は未知であったが、ここに初めてそれらを記載した。両種ともにシベリアの中部と東部に分布し、特に東部シベリアの Magadan 地方にはふつうに生息する。

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